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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,378	02/08/2005	Geir Jensen	04247	8964	
	7590 03/20/200 CHULTZ & MACDOI	EXAMINER			
1727 KING STI SUITE 105		FONSECA, JESSIE T			
ALEXANDRIA	A, VA 22314	ART UNIT	PAPER NUMBER		
			3633		
		MAIL DATE	DELIVERY MODE		
			03/20/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No. Applicant(s)						
Office Action Summary			10/518,378		JENSEN, GEIR			
			Examiner		Art Unit			
			JESSIE FOR	ISECA	3633			
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the c	over sheet with the c	orrespondence ad	ddress		
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Issions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comp period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will y will, by statute, c	TE OF THIS 6(a). In no event Il apply and will e cause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on 19 Dec	cember 200	7.				
•	•	2b)⊠ This a						
3)		<i>'—</i>			secution as to the	e merits is		
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		,	,				
		annlication						
•	Claim(s) <u>18-28</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.	are withdrawi	II IIOIII COIIS	ideration.				
· · _ ·	· · ———	acted						
-	Claim(s) <u>18-20 and 22-28</u> is/are rejected to	ecieu.						
•	Claim(s) <u>21</u> is/are objected to.	-4:	-1					
8)[]	Claim(s) are subject to restrict	ction and/or	election req	uirement.				
Applicati	on Papers							
9)	The specification is objected to by th	ne Examiner.	•					
10)🛛	The drawing(s) filed on <u>12/19/07</u> is/a	are: a)⊠ aco	cepted or b	objected to by th	e Examiner.			
	Applicant may not request that any obje	ection to the dr	rawing(s) be	neld in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correctio	on is required	if the drawing(s) is ob	ected to. See 37 C	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4 5 6	Interview Summary Paper No(s)/Mail Da I Notice of Informal P Other:	nte			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/19/07 has been entered.

Claim Objections

Claim 1 is objected to because of the following informalities:

Claim 1 (line 5 of the claim): It appears applicant inadvertently misspelled --grille-- as "grill". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 18-19 and 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Lamb (US 2,279,791).

With regards to claim 18: Lamb discloses a ventilation device (fig. 3) capable of passing air therethrough, and including an upstream side and a downstream side, the ventilation device including a passive fireblocking means comprising:

at least one grille body (22) on the upstream side comprising a plurality of evenly distributed openings permitting air flow therethrough, the grille body (22) being coated with an intumescent material (16) (figs 2 & 3; col. 1, line 45 - col. 2, line 11); and

adjacent to and downstream from the at least one grille body (22), at least one thermally conductive metal mesh (20) permitting air flow therethrough,

wherein the intumescent material (16) swells when exposed to sufficient heat to close the event distributed opening, and the metal mesh (20) has a capacity for heat storage (col. 2, lines 3-11).

With regards to claim 19: Lamb discloses a metal mesh (20) is threedimensional.

With regards to claim 25: Lamb further discloses air filters which serve as insulating material as its provides an isolation of an area between the grille body (22) and metal mesh (20). It is noted that that a metal mesh is located on both ends of ventilation device (fig. 3) capable of serving as a thermal break as it's barrier between the grille body (22) and metal mesh (20).

With regards to claim 26: Lamb discloses a grille body (22) oriented adjacent metal mesh (20) which is capable of being positioned towards a potential source of flame. It noted that language directed to the orientation of the of ventilation device is considered nomenclature as the device is not attached to a structure, the ventilation

Art Unit: 3600

device of Lamb is capable of being oriented vertically so as to have the grille body oriented below the metal mesh.

With regards to claim 27: The ventilation device of Lamb is considered a fire blanket as it acts as fire barrier; it is well known in the art that a blanket is a thick covering layer.

Claim Rejections - 35 USC § 102/103

Claim 20 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) by Lamb (US 2,279,791).

With regards to claim 20: Lamb further discloses a metal mesh (20) has a rectangular cross-section (fig. 3). However, should it be argued that Lamb does not explicitly disclose the metal mesh is rectangular in cross-section, one of ordinary skill in the art would recognize that the metal mesh would obviously be rectangular so as to provide proper heat conductivity/dissipation of the rectangular grille body.

Claim Rejections - 35 USC § 103

Claims 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb (US 2,279,791) in view of Gold (US 4,121,563).

With regards to claim 22: Lamb discloses everything previously mentioned, but fails to disclose the metal mesh comprises stones to provide heat storage capacity.

However, Gold discloses stones on a metal mesh so as to provide heat storage capacity (abstract). It is noted the ventilation device of Lamb would need to be oriented

Art Unit: 3600

vertically so as to take advantage of heat storage provided by the stone. it would have been obvious to one of ordinary skill in art at the time of the invention was made to modify the mesh of Lamb to include stones as taught by Gold in order to store heat that would otherwise normally pass through ventilation structure.

Claims 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb (US 2,279,791) in view of Dixon (GB 2 107 183 A)

With regards to claim 23: Lamb discloses everything mentioned, but silent with regards to a mesh comprising a honeycomb-patterned. However, Dixon discloses a device for a ventilation duct having a honeycomb patterned metal configuration for use in fire blocking/prevention (figs. 1-2; abstract & col. 1, lines 4-13). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the device of Lamb to include a mesh with a honeycomb configuration as taught by Dixon in order to provide a mesh that would provide increased structural integrity (i.e. rigidity) to the ventilation device.

Claims 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb (US 2,279,791).

With regards to claim 24: Lamb discloses everything previously mentioned including the screen mounted within a frame (15), but is silent with regards to metal mesh being arranged in a frame. However, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the device of

Art Unit: 3600

Lamb to have the entire structure within a frame including the grille body and metal mesh in order to provide a structure for ease of handling and installation.

Claims 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb (US 2,279,791) in view of Abu-Isa et al. (US 6,184,269).

With regards to claim 28: Lamb discloses everything previously mentioned, but fails to disclose the intumescent material comprises a hard phase high density polyethylene and a soft phase comprising at least one of chlorinated polyethylene and silicone rubber. However, Abu-Isa et al. discloses a intumescent material comprises a hard phase high density polyethylene and a soft phase comprising at least one of chlorinated polyethylene and silicone rubber (col. 2, lines 2-9). However, it would have been obvious to one of ordinary skill in art at the time of the invention was made to modify the intumescent material of Lamb to comprise a hard phase high density polyethylene and a soft phase comprising at least one of chlorinated polyethylene and silicone rubber in order to provide shielding under heat and fire. No new and unpredictable results would arise from substituting one known intumescent material for another.

Allowable Subject Matter

Claim 21 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

The previous 112 second paragraph rejections have been withdrawn in view of the amendment filed 12/19/08.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following prior art is directed to fire resistant structures:

Beel (US 5,344,106); (GB 2 334 674 A); (GB 2 361 868 A); (GB 2 334 675 A); and (GB 2 159 051 A).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JESSIE FONSECA whose telephone number is (571)272-7195. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Canfield can be reached on (571)272-6840. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/518,378 Page 8

Art Unit: 3600

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. F./ Examiner, Art Unit 3633

/Robert J Canfield/

Supervisory Patent Examiner, Art Unit 3635